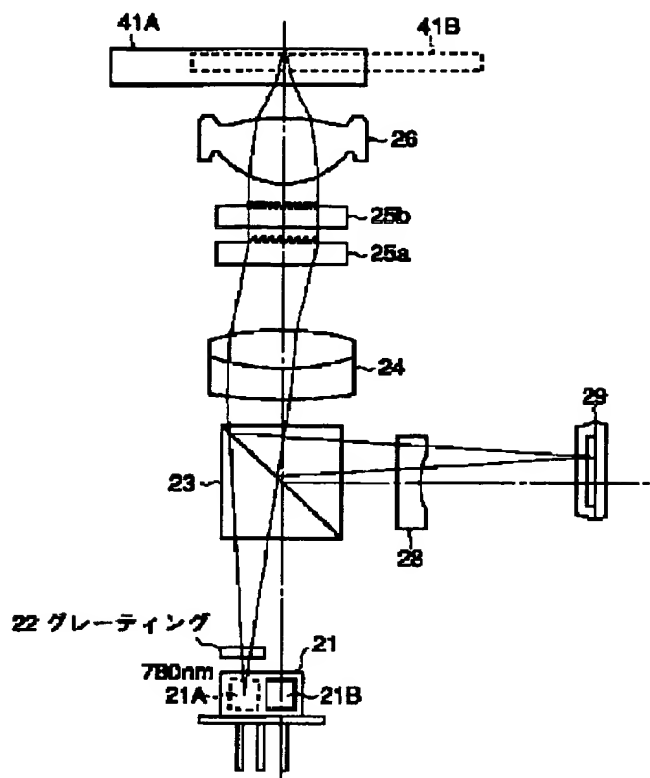


## Patent Abstracts of Japan

CD再生時

PUBLICATION NUMBER : 10261241  
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 APPLICATION DATE : 19-03-97  
 APPLICATION NUMBER : 09065851  
 APPLICANT : SONY CORP;  
 INVENTOR : ABE TSUGUHIRO;  
 INT.CL. : G11B 7/135 G11B 7/00 G11B 7/20  
 TITLE : RECORDING/REPRODUCING DEVICE  
 AND METHOD THEREOF



**ABSTRACT :** PROBLEM TO BE SOLVED: To contemplate the realization of a miniature device capable of reproducing both DVD(digital versatile disk) and CD(compact disk)-R.

**SOLUTION:** A laser chip 21B emitting the laser beam of 650nm wavelength at the time of reproducing the DVD 41B is arranged on an optical axis of a dioptric objective lens 26. A laser chip 21A emitting the laser beam of 780nm wavelength at the time of reproducing the CD 41A is arranged out of the optical axis. The laser beam emitted from the laser chip 21A for reproducing the CD is diffracted by a holographic optical element(HOE) 25a for synthesizing an optical path and synthesized on the optical axis by correcting the coma aberration. The spherical aberration of this beam is corrected by an HOE 25b then the beam, is made incident on the CD 41A through the dioptric objective lens 26.

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